

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/607,665	RASMUSSEN ET AL.
	<b>Examiner</b>	Art Unit
	DENNIS G. BONSHOCK	2173

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--*

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to the Applicant's Amendment filed on 7-20-2009 and the Examiner's Amendment of 9-10-2009.

2.  The allowed claim(s) is/are 1-3,6-13,16-20 and 23-25.

3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)  All    b)  Some\*    c)  None    of the:

1.  Certified copies of the priority documents have been received.

2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.

3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.

(a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached  
1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.

(b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of  
Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application
6.  Interview Summary (PTO-413),  
Paper No./Mail Date 9-10-09
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

/Dennis G. Bonshock/  
Primary Examiner, Art Unit 2173

9-10-09

#### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William D. Titcomb on 9-9-2009.

The application has been amended as follows:

Replace the claim set of record with:

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1. **(Currently Amended)** A system for simplified implementation of adaptable user interfaces in a computing device using one or more processors, the system comprising:

at least one content module that contains content, wherein the content is unformatted with respect to visual characteristics;

at least one navigation module;

a framework supporting the simplified implementation, the framework being visually modified by formatting attributes of cascading style sheets and content including[[.]] a plurality of framework containers each defining at least one of a plurality of formatting attributes at a data-level;

the plurality of formatting attributes being activated by the at least one content module to instantiate an application-level relationship of the at least one

content module that contains content including a plurality of containers configured to accept zero or more modules or containers, wherein the at least one content module and the at least one navigation module are inserted into the plurality of framework containers; and

a formatting specification that includes a standardized set of flexible styles, attributes of which are set for defining a plurality of visual characteristics of the at least one content module and, the at least one navigation module with the visual characteristics instantiating and displaying at least a portion of the framework after at least one content module is inserted into the framework, wherein if one of said plurality of containers does not contain a module or another container after creating an instance of the at least one navigation module that associates the same data type between the data-level and the application-level, the container shrinks thereby effectively disappearing from the instantiated framework when the user interface is displayed.

2. (Previously Presented) The system of claim 1, wherein at least one of said plurality of containers includes at least one row that includes at least one column.

3. (Previously Presented) The system of claim 1, wherein when a content module or navigation module is inserted into one of said plurality of containers, the container expands to fit the inserted content module or the inserted navigation module.

4. (Canceled)

**5. (Canceled)**

6. (Previously Presented) The system of claim 1, wherein the plurality of visual characteristics are selected from: colors, heights, widths, spacing around an element, spacing within an element, background images, borders, and fonts.

7. (Original) A web-page user interface generated by the system of claim 1.

8. (Currently Amended) A method of providing at least one adaptable user interface in a computing device using one or more processors, the method comprising:

    providing a framework supporting the at least one adaptable user interface, the framework being visually modified by formatting attributes and content including,

        creating a plurality of framework containers with the computing device to form the framework, the framework containers each defining at least one of the plurality of formatting attributes of cascading style sheets at a data-level;

        activating the plurality of formatting attributes by at least one content module to instantiate an application-level relationship of the at least one content module that contains content including a plurality of containers configured to accept zero or more modules or containers;

        inserting at least a first content module unformatted with respect to visual characteristics into one of said plurality of containers;

inserting at least a first navigation module into one of said plurality of containers;

defining, by setting a first set of attributes of a standardized set of styles, a first plurality of visual characteristics of at least a portion of each of the first content module, the first navigation module, and the plurality of framework containers; and

combining the plurality of framework containers, including the first content module and the first navigation module, with the visual characteristics instantiating and displaying at least a portion of the framework after at least one content module is inserted into the framework with the attributes of the standardized set of styles to render a first user interface, wherein if one of said plurality of containers does not contain a module or another container, after creating an instance of the at least one navigation module that associates the same data type between the data-level and the application-level, the container shrinks thereby effectively disappearing from the framework when the rendered user interface is displayed.

9. (Original) The method of claim 8, wherein the first user interface is made to match the appearance of a first Web site.

10. (Previously Presented) The method of claim 8, further comprising:

defining, by setting a second set of attributes of the standardized set of styles, a second plurality of visual characteristics of at least a portion of at least one of the first content module, the first navigation module, and the instantiated framework; and

combining the framework, including at least one of the first content module and the first navigation module, that change at least a portion of the instantiated framework when inserted into the instantiated framework with the second plurality of visual characteristics to render a second user interface that has a different appearance than the first user interface.

11. (Previously Presented) The method of claim 8, further comprising:  
inserting at least one of at least a second content module and at least a second navigation module into one of said plurality of containers in the instantiated framework;  
defining, by setting a second set of attributes for the standardized set of styles, a second plurality of visual characteristics of at least a portion of each of the second content module, the second navigation module, and the instantiated framework; and  
combining the instantiated framework, including at least one of the second content module and the second navigation module, that change at least a portion of the instantiated framework when inserted into the instantiated framework with the second plurality of visual characteristics to render a second user interface that has a different appearance than the first user interface.

12. (Original) The method of claim 11, wherein the first user-interface matches the appearance of a first Web site and the second user-interface matches the appearance of a second Web site.

13. (Previously Presented) The method of claim 8, wherein when at least one of a content module and a navigation module is inserted into one of said plurality of containers, the container expands to fit the inserted module.

14. (Canceled)

15. (Canceled)

16. (Previously Presented) The method of claim 8, wherein the plurality of visual characteristics are selected from: colors, heights, widths, spacing around an element, spacing within an element, background images, borders, and fonts.

17. (Original) A computer-readable medium containing computer-executable instructions for performing the method of claim 8.

18. (Original) A web-page user interface generated by the method of claim 8.

19. **(Currently Amended)** A computer-readable medium having computer-readable modules of a user interface in a computing device using one or more processors, the computer readable medium comprising:

at least one content module unformatted with respect to visual characteristics that contains content to be displayed via the user interface;

at least one navigation module;

a framework module supporting the user interface, the framework module is visually modified by formatting attributes and content including[[,]] a plurality of framework modules each defining at least one of a plurality of formatting attributes of cascading style sheets at a data-level;

the plurality of formatting attributes being activated by the at least one content module to instantiate an application-level event of the at least one content module that contains content including a first table and a second table both having a plurality of containers configured to accept zero or more content or navigation modules, wherein the at least one navigation module is inserted into at least one of the containers of the first table and the at least one content module is inserted into at least one of the containers of the second table; and a standardized set of styles attributes of which are set to define a plurality of visual characteristics of at least a portion of each of: the at least one content module, the at least one navigation module, with the visual characteristics instantiating and displaying at least a portion of the framework after at least one content module is inserted into the plurality framework modules, wherein if one of said plurality of

containers does not contain a content or navigation module after creating an instance of the at least one navigation module that associates the same data type between the data-level and the application-level, the container shrinks thereby effectively disappearing when the user interface is displayed.

20. (Previously Presented) The computer-readable medium of claim 19, wherein when a content module or navigation module is inserted into one of said plurality of containers, the container expands to fit the inserted content module or the inserted navigation module.

21. (Canceled)

22. (Canceled)

23. (Previously Presented) The computer-readable medium of claim 19, wherein the plurality of visual characteristics are selected from: colors, heights, widths, spacing around an element, spacing within an element, background images, borders, and fonts.

24. (Currently Amended) A flexible framework system for adaptable database relationships between at least one content module to support user interfaces in a computing device using one or more processors, the system comprising:

at least one navigational module;

a framework supporting adaptable database relationships between at least one content module unformatted with respect to visual characteristics, the framework being visually modified by formatting attributes and content including[[.]] a plurality of framework containers each defining at least one of a plurality of formatting attributes of cascading style sheets at a data-level;

the plurality of formatting attributes are activated by the at least one content module to instantiate an application-level relationship of the at least one content module that contains content including a plurality of containers configured to accept zero or more modules or containers, wherein the at least one content module and the at least one navigation module are inserted into the framework and the content module that contains content is unformatted with respect to visual characteristics; and

a formatting specification that includes a standardized set of flexible styles, attributes of which are set for defining a plurality of visual characteristics of the at least one content module, and the at least one navigation module said visual characteristics instantiating and displaying at least a portion of the framework after at least one content module is inserted into the plurality of framework containers, wherein if one of said plurality of containers does not contain a module or another container after creating an instance of the at least one navigation module that associates the same data type between the data-level and the application-level, the container shrinks thereby effectively disappearing from the instantiated framework when the user interface is displayed.

25. (Previously Presented) The system of claim 1, wherein if one of said plurality of containers does not contain a module or another container after the dynamically linking between the data-level and the application-level the container shrinks thereby from the instantiated framework when the user interface is displayed.

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#### **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance:
2. The examiner considered the Applicant's Amendment filed on 7-20-2009 and the Examiner's Amendment of 9-10-2009 and after updated search, no other prior art of record has taught that which was presented in the amended claims
3. Therefore, claims 1-3, 6-13, 16-20, and 23-25 are allowable.
4. Independent claims 1, 8, 19, and 24, when considered as a whole, are allowable over the prior art of record (Anuff et al., Pub. No.: US 2003/0056026 A1, hereinafter Anuff, Kanevsky et al., Pub. No.: US 2002/0089546 A1, hereinafter Kanevsky, and Olander et al., Pub. No.: US 2005/0005243 A1, hereinafter Olander).

Anuff teaches, in paragraphs 48, 133, and 138, a system for modifying a user interface, the interface comprising both content elements and navigational elements, where the interface optionally doesn't have a default branding; in paragraph 60, a framework for managing the look and feel of the sites content and navigational links, where a plurality of containers (panes) are configured to accept content (see paragraph

157 and figure 18); in paragraphs 45, 53, and 76, which teach a database management system that retrieves data and employs in the framework, where data from a data-level is used in producing the structure of the web page at the application-level (see paragraph 136); in paragraph 133, defining a look and feel (branding) of the pages and navigations structure of the site, the branding including a theme and structure establishing a collection of styles for a site; in paragraphs 139 and 136, branding of the layout (structure); in paragraph 133, site content being combined with a framework defining visual characteristics with a specific look and feel. Anuff is supplemented by Olander who further teaches the customization of web pages and their corresponding links (see paragraphs 25, 30, and 32), and further teaches, in paragraphs 28, 34, and claims 1 and 9, a framework where controls (tables) serve as containers for other controls, setting up a system with a plurality of tables with an imbedded set of containers. Anuff and Olander are further supplemented by Kanevsky who further teaches a system for reformatting the GUI (see paragraph 5), and further teaches, in paragraphs 5-10 and 23, dynamically sizing the containers, that already created for display, based on the content inserted into the container, where it would be obvious that a window with no content would effectively disappear (see paragraph 10). Kanevsky show the advantage of this in allowing for a transparent window that reveals hidden content (see above citation).

However, specifically the prior art of record fails to clearly teach or support the limitations of a system for setting up a framework where a plurality of containers within the framework are initially vacant and are filled with at least one content module, that

*is/are initially unformatted with respect to visual attributes, and at least one navigation module, wherein the visual characteristics of certain containers in the framework are defined via formatting attributes of an associated cascading style sheet, wherein when one of the plurality of containers does not contain a module or another container the container shrinks thereby effectively disappearing from the instantiated framework.*

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DENNIS G. BONSHOCK whose telephone number is (571)272-4047. The examiner can normally be reached on Monday - Friday, 5:30 a.m. - 3:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kieu Vu can be reached on (571) 272-4057. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dennis G. Bonshock/  
Primary Examiner, Art Unit 2173  
9-10-09  
dgb